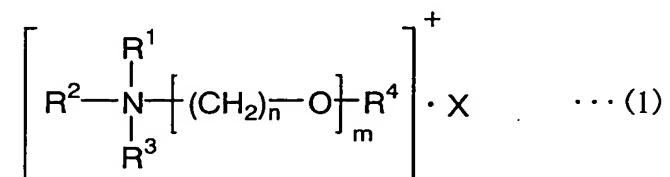


# ABSTRACT

A polymer electrolyte-forming composition containing  
5 (A) a quaternary ammonium salt of general formula (1) below  
and (B) an ionic liquid can be converted into a polymer  
without compromising the excellent properties of the ionic  
liquid, thus enabling an electrolyte having an excellent  
safety and electrical conductivity and also a broad potential  
10 window to be obtained.



In formula (1),  $\text{R}^1$  to  $\text{R}^3$  are each independently an alkyl  
group of 1 to 5 carbons or a substituent having a reactive  
unsaturated bond and any two from among  $\text{R}^1$  to  $\text{R}^3$  may together  
15 form a ring, and  $\text{R}^4$  is methyl, ethyl or a substituent having  
a reactive unsaturated bond, with the proviso that at least  
one of  $\text{R}^1$  to  $\text{R}^4$  is a substituent having a reactive  
unsaturated bond. X is a monovalent anion, the letter m is  
an integer from 1 to 8, and the letter n is an integer from 1  
20 to 4.